

Title (en)
Light emitting device

Title (de)
Lichtemittierende Vorrichtung

Title (fr)
Dispositif électroluminescent

Publication
EP 2822111 A1 20150107 (EN)

Application
EP 14175440 A 20140702

Priority
• JP 2013139674 A 20130703
• JP 2013241042 A 20131121

Abstract (en)
The light emitting device according to the present invention comprises a laser diode; a wavelength converting member which is configured to convert a wavelength of a light emitted from the laser diode; and a support member which is configured to support the wavelength converting member so that the light passes through two surfaces of the wavelength converting member. The wavelength converting member comprises a fluorescent material and a binder. At least one light transmissive member is disposed on at least one of these two surfaces of the wavelength converting member. The binder has a melting point higher than a melting point of the light transmissive member. The light transmissive member is fixed to the support member by fusion bonding.

IPC 8 full level
H01S 3/00 (2006.01)

CPC (source: EP US)
F21K 9/64 (2016.07 - US); **F21V 7/30** (2018.01 - EP US); **F21V 9/08** (2013.01 - EP US); **F21V 9/32** (2018.01 - EP US); **G02B 6/0008** (2013.01 - EP US); **H01S 3/0092** (2013.01 - US); **H01S 5/0087** (2021.01 - EP US); **H01S 5/02325** (2021.01 - US); **F21Y 2115/30** (2016.07 - US); **H01S 5/02212** (2013.01 - EP); **H01S 5/02251** (2021.01 - EP); **H01S 5/02257** (2021.01 - EP US)

Citation (applicant)
JP 2010199357 A 20100909 - NICHIA CORP

Citation (search report)
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EP 2822111 A1 20150107; **EP 2822111 B1 20180822**; JP 2015029034 A 20150212; JP 6331353 B2 20180530; US 2015009703 A1 20150108; US 2017063033 A1 20170302; US 9529134 B2 20161227; US 9991672 B2 20180605

DOCDB simple family (application)
EP 14175440 A 20140702; JP 2013241042 A 20131121; US 201414321670 A 20140701; US 201615352248 A 20161115